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 **Mathematics Faculty**

 **Unit 5 Overview**

 **Fractions, Decimals and Percentages**

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| **Topic** | **Key Ideas** | **Progress** |
| **R** | **A** | **G** |
| **Fractions, Decimals and Percentages** | I can simplify fractions and find equivalent fractions |  |  |  |
| I can compare fractions |  |  |  |
| I can change between mixed numbers and improper fractions |  |  |  |
| I can use the four operations with fractions |  |  |  |
| I can find equivalent fractions, percentages and decimals |  |  |  |
| I can compare decimals |  |  |  |
| I can calculate percentages of amounts |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Finding equivalent fractions and writing fractions in their simplest form (MW clips N23b & c and CM clips 135 & 146) | Formative assessment strategies e.g. MWBs, whole class questioning, Diagnostic Questions, SLOP time with self-assessment, Live Marking etc.Assessment is also supported with our use of ILOs which alternate between Basic Skills Checks one week and then a more individual ILO the following set through Mathswatch and Corbettmaths (see learning focus).Finally every unit is assessed half termly as part of our Assessment Calendar in Mathematics. | fraction, numerator, denominator, equivalent, simplify, cancel |
| **2** | Ordering and comparing fractions with different denominators (MW clip N34 and CM clip 144) | fraction, numerator, denominator, equivalent, order, compare |
| **3** | Changing between mixed numbers and improper fractions (MW clip N35 and CM clips 139 & 140) | improper fraction, mixed number, multiply, divide, convert |
| **4** | Adding and subtracting fractions with different denominators (MW clip N36 and CM clip 133) | numerator, denominator, add, subtract, equivalent, lowest common multiple |
| **5** | Multiplying fractions and mixed numbers by a whole number or fraction (MW clip N42a and CM clip 142) | fraction, integer, numerator, denominator, multiply |
| **6** | Dividing fractions by a whole number or another fraction (MW clip N42b and CM clip 134) | fraction, integer, numerator, denominator, divide |
| **7** | Converting between fractions, decimals and percentages (MW clip N32 and CM clips 121 - 128) | fraction, decimal, percentage, equivalent, multiply, divide |
| **8** | Ordering and comparing decimals with a different number of decimals places (MW clip N2b and CM clip 95) | decimal, place value, decimal place, order, compare |
| **9** | Calculating percentages of amounts mentally (MW clip N24b and CM clip 234) | percentage, per cent, hundredth, calculate, divide, multiply |
| **10** | Finding percentages of amounts on a calculator (CM clip 235) | percentage, per cent, hundredth, calculate, divide, multiply |